		Pushing the Er	nvelope
		2003 Mathen	•
		Course of S	study
Alabama Mathematic	s		
Grade 5			
Activity/Lesson	State	Standards	
			Solve word problems that involve decimals,
History of Aviation			fractions, or money: Solving word problems
Propulsion (pgs. 5-9)	AL	MA.5.3.1	involving elapsed time
		Pushing the Er	nvelope
		2003 Mathen	
		Course of S	tudy
Alabama Mathematic	 ;s		
Grade 7			
Activity/Lesson	State	Standards	
			Express a pattern shown in a table, graph, or
Physics and Math			chart as an algebraic equation: Determining if a
(pgs. 43-63)	AL	MA.7.4.2	constant rate of change exists in a pattern
1.30	- · -	777 U	Translate verbal phrases into algebraic
			expressions and algebraic expressions into
Physics and Math			verbal phrases: Exhibiting understanding of a
(pgs. 43-63)	AL	MA.7.5.1	variable as an unknown quantity
Physics and Math	//L	1017.7.0.1	Solve one- and two-step equations: Solving
(pgs. 43-63)	AL	MA.7.6.1	inequalities in one variable
(pgs. +0-00)	/\L	IVIA.7.0.1	inequalities in one variable
		Pushing the E	nyelone
		2003 Mathen	
		Course of S	
Alabama Mathematic	·e	Oourse or o	nady
Grade 8	, 3		
Activity/Lesson	State	Standards	
Activity/Lesson	State	Standards	Use order of operations to evaluate and simplify
Types of Engines (algebraic expressions: Applying the substitution
pgs. 11-23)	AL	MA.8.3.1	principle
pgs. 11-23)	AL	IVIA.0.3. I	Use order of operations to evaluate and simplify
Chamietry (nac. 25			algebraic expressions: Applying the substitution
Chemistry (pgs. 25-41)	AL	MA.8.3.1	principle
41)	AL	IVIA.0.3. I	Determine the surface area and volume of
			rectangular prisms, cylinders, and pyramids:
Chemistry (pgs. 25-			Estimating surface area and volume of solid
	Δ1	MA.8.11.1	_
41)	AL	IVIA.8.11.1	figures
			Determine the surface area and volume of
Chamista: /na= 05			rectangular prisms, cylinders, and pyramids:
Chemistry (pgs. 25-	A.	NAA 0 44 0	Determining the appropriate units of measure to
41)	AL	MA.8.11.2	describe surface area and volume
District and I M. O.			Use order of operations to evaluate and simplify
Physics and Math		NAA 0 0 4	algebraic expressions: Applying the substitution
(pgs. 43-63)	AL	MA.8.3.1	principle
			Graph linear relations by plotting points or by
			using the slope and y-intercept: Exhibiting
Physics and Math			conceptual understanding of various uses of
(pgs. 43-63)	AL	MA.8.4.3	variables

Pushing the Envelope 2003 Mathematics					
Alabama Mathematics					
Grades 9-12 (Algebra I)					
Activity/Lesson	State	Standards			
Physics and Math			Solve problems algebraically that involve area and perimeter of a polygon, area and circumference of a circle, and volume and surface area of right circular cylinders or right rectangular prisms: Applying formulas to solve		
(pgs. 43-63)	AL	MA.9-12.11.1	word problems		